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10/525,144	10/13/2005	Hong Wang	678-1882	5612
66547 THE FARREI	7590 07/26/200 LL LAW FIRM, P.C.	EXAMINER		
333 EARLE OVINGTON BOULEVARD			REGO, DOMINIC E	
SUITE 701 UNIONDALE, NY 11553			ART UNIT	PAPER NUMBER
			2618	
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			07/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
		10/525,144	WANG ET AL.		
Office Action Summary		Examiner	Art Unit		
		Dominic E. Rego	2618		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with t	he correspondence address		
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Status		•			
1)⊠	Responsive to communication(s) filed on 10 M	ay 2007.			
2a)⊠	This action is FINAL . 2b) This action is non-final.				
3)	S) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.		
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 14-26 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 14-26 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	ion Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by t drawing(s) be held in abeyance. ion is required if the drawing(s) i	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).		
Priority u	under 35 U.S.C. § 119				
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Appli rity documents have been rec u (PCT Rule 17.2(a)).	ication No eived in this National Stage		
Attachmen					
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Ma	mary (PTO-413) ail Date nal Patent Application		

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 14-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Rune et al. (US Patent Application Publication #2002/0025815).

Regarding claim 14, Rune teaches a channel type switching (Abstract) method for a Multimedia Broadcast and Multicast service (MBMS) Point to Point (P-t-P) and Point to Multi Point (P-t-M) channel, when a UE having MBMS service moves to a cell in a Destination Radio Network Controller (DRNC) (Paragraphs 0047 and 0049) that has an lur interface with a Serving Radio Network Controller (SRNC) (Figure 1A, lur interface between elements SRNC and drift-RNC), comprising the steps of:

determining in the DRNC, to perform switching channel type between a common channel and a dedicated channel based on a number of users having the MBMS service in the cell (Paragraphs 0055, 0059);

notifying the SRNC of the determined MBMS channel type from the DRNC (Paragraphs 0061 and 0062);

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notifying in the SRNC, the UE to reconfigure an MBMS channel via a Radio Resource Control (RCC) message in order to perform channel type switching to the determined MBMS channel type; and

transmitting MBMS data with the determined channel type to UEs requiting MBMS service (Paragraphs 0061 and 0062).

Regarding claim 15, Rune teaches the method, wherein said channel switching is at least determined based on comparing a number of UEs requiting MBMS service to a threshold (Paragraph 0066).

Regarding claim 16, Rune teaches the method, wherein said channel switching further comprises:

the SRNC transmitting a radio link setup request message to the DRNC including at least one MBMS service identifier (Paragraphs 0025 and 0061).

Regarding claim 17, Rune teaches the method, wherein said channel switching further comprises:

sending, by the SRNC, a radio link setup request message to the DRNC to request a radio link setup (Paragraph 0061);

determining, by the DRNC, channel type at least based on a number of UEs that require MBMS service and informing the SRNC of the channel type (Paragraphs 0055, 0059).

Regarding claim 18, Rune teaches the method, wherein said channel switching further comprises:

the SRNC sending a message to inquire about MBMS service type from the DRNC (Paragraph 0058 and 59);

the DRNC determining a channel type to be set up and informing the SRNC of the parameters of MBMS channel set up (Paragraphs 0061 and 0062); and

the SRNC completing setting up a dedicated channel or obtaining common channel information from the DRNC (Paragraphs 0061 and 0062).

Regarding claim 19, Rune teaches the method, wherein said message transferred from the SRNC to the DRNC comprises an MBMS service identifier (Paragraph 0058), which enables the DRNC to count a number of MBMS users (Paragraph 0066).

Regarding claim 20, Rune teaches the method, wherein, if the UE is first in requesting MBMS service in the DRNC, the DRNC sets up a radio access bearer (RAB) connection with a core network (Paragraphs, 0041,0046, 0048 and 0061).

Regarding claim 21, Rune teaches a channel type switching method for a Multimedia Broadcast and Multicast Service (MBMS) Point to Point (P-t-P) and Point to Multi Point (P-t-M) channel in a radio network Controller (Paragraphs 0047 and 0049), comprising:

checking a number of User Equipments (Ues) in a cell to determine an MBMS channel type (Paragraph 0066);

determining the MBMS channel type by comparing the number of UEs that require MBMS service to a threshold (Paragraph 0066);

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reporting change of the MBMS channel type to a serving radio network controller (SRNC) (Paragraph 0066); and

receiving in the SRNC, the MBMS channel type from a Destination Radio Network Controller (DRNC), and notifying in the SRNC, the UE to reconfigure an MBMS channel via a Radio Resource Control (RRC) message in order to perform channel type switching to the MBMS channel type.

Regarding claim 22, Rune teaches the method, further comprising:

receiving, at the SRNC, the MBMS channel type from a destination radio network controller (DRNC) (Paragraph 0061 and 0062); and

transmitting a channel reconfiguration request message to the UE (Paragraph 0061 and 0062).

Regarding claim 23, Rune teaches a channel type switching method for a Multimedia Broadcast and Multicast Service (MBMS) Point to Point (P-t-P) and Point to Multi Point (P-t-M) channel, comprising the steps of:

transmitting, from a Serving Radio Network Controller (SRNC), a radio link setup message to a Destination Radio Network Controller (DRNC) (Paragraph 0058);

transmitting, upon receiving the radio link setup message in the DRNC, an MBMS channel type to the SRNC (Paragraph 0061 and 0062);

notifying, at the SRNC, a User Equipment (UE) that requires MBMS service to reconfigure the MBMS channel type via a Radio Resource Control (RRC) message (Paragraph 0061, 0062 and 0063);

receiving, at the UE, the MBMS channel type (Paragraph 0061, 0062 and 0063); and

receiving MBMS data on an MBMS channel using the MBMS channel type, wherein the MBMS channel type is one of a dedicated channel or a common channel (Paragraph 0061, 0062 and 0063).

Regarding claim 24, Rune teaches the method, wherein the radio link setup message comprises an MBMS service identifier (Paragraphs 0025 and 0061).

Regarding claim 25, Rune teaches a data communication channel establishment method for setting up multimedia broadcast/multicast service (MBMS) with a core network (CN) via a destination radio network controller (DRNC), when a UE moves to a cell controlled by the DRNC (Figure 1B), comprising the steps of:

a serving radio network controller (SRNC) sending a common transport channel resource request message to the DRNC (Paragraph 0058);

the DRNC sending an MBMS service request message to the CN (Figure 1B and Paragraph 0046, 0061, and 0062);

the CN requesting to set up a data connection with the DRNC (Figure 1B and Paragraph 0046 and 0058); and

the DRNC sending a response message to the CN (Figure 1B and Paragraphs 0061 and 0062).

Regarding claim 26, Rune teaches the method, wherein the step of sending the common transport channel resource request messages further comprises sending a MBMS service identifier (Paragraphs 0025 and 0061).

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Response to Arguments

3. Applicant's arguments filed 05/10/2007 have been fully considered but they are not persuasive. Regarding claims 14, 23, and 25, applicant argues that Rune does not teach to determining in the DRNC, to perform switching channel type between a common channel and a dedicated channel based on a number of users having the MBMS channel type from the DRNC. The examiner disagrees. In paragraphs 0020 0055, Rune teaches a second of the alternate ways of assigning radio resources when switching from dedicated channels to common channels in UMTS is for the network (UTRAN) to select the radio resources. When the user equipment unit (UE) is to switch to the common channels, the network sends information describing the networkselected resources to the user equipment unit (UE) via signaling messages in accordance with a physical channel reconfiguration procedure (described, e.g., in 3GPP TS 25.331, v.3.2.0 "RRC Protocol Specification") where 3GPP TS 25.331, v.3.2.0 does serve video and text messaging same as MBMS service and DRNC 26(2) knows how many users are in the cell based on the service they are requesting for. Likewise, applicant argues that Rune fails to teach notifying the SRNC of the determined MBMS channel type from the DRNC. The examiner disagrees. In paragraph 0061, Rune teaches step 100-3 of channel switching process 100 shows receipt at servicing radio network controller (SRNC) 26(1) of the response message 3-2 same as notifying the SRNC of the determined MBMS channel type (either common channel or dedicated channel) from the DRNC. Further, applicant argues that Rune fails to teach notifying in the SRNC, the UE to reconfigure an MBMS channel via a Radio Resource Control

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(RCC) message in order to perform channel type switching to the determined MBMS channel type and transmitting MBMS data with the determined channel type to UEs requiting MBMS service. The examiner disagrees. Paragraph 0061, Rune teaches Step 100-3 of channel switching process 100 shows receipt at serving radio network controller (SRNC) 26.sub.1 of the response message 3-2. Following the receipt at step 100-3 of response message 3-2, channel-switching process 100 performs step 100-4. As step 100-4, channel switching process 100 issues a request 3-3 to the user equipment unit (UE) 30 involved with the channel switch-affected connection, the request of step 100-4 directing the user equipment unit (UE) 30 to switch to common channels.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

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than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dominic E. Rego whose telephone number is 571-272-

8132. The examiner can normally be reached on Monday-Friday, 8:30 am-5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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Dominic E. Rego

SUBERVISORY PATENT EXAMINER